**SMART CATTLE MANAGEMENT SYSTEM**

**Abstract:**

The Smart Cattle Management System is an innovative solution designed to enhance the efficiency and well-being of cattle farming operations. Leveraging advanced technologies such as Arduino boards, GPS modules, automatic doors, and fire alarms, the system provides comprehensive monitoring and automation for improved cattle management.

* **GPS Module**
* **Environmental Monitoring Module**
* **Automatic Doors Module**
* **Fire Alarm Module (Optional)**

modules

* **Arduino IDE**
* **GPS Module Libraries**
* **Programming Language [Embedded Python]**

software requirements

* **Arduino Board**
* **GPS Module**
* **Sensors** [Motion Sensors PIR), RFID (Radio-Frequency Identification)]
* **Actuators [**servo motors, DC motors**]**
* **Fire Alarm System Components (**Optional**)**

hardware requirements